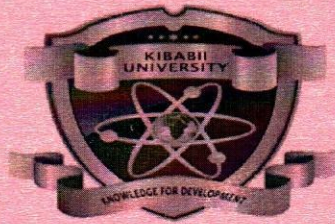


600



(Knowledge for Development)

# **KIBABII UNIVERSITY**

**UNIVERSITY EXAMINATIONS  
2021/2022 ACADEMIC YEAR  
FOURTH YEAR FIRST SEMESTER  
MAIN EXAMINATION  
FOR BEE,EDE,BED**

**COURSE CODE: ESM 411**

**COURSE TITLE: ENVIRONMENTAL EDUCATION**

**DATE: 23/05/2022      TIME: 9 AM - 11AM**

### **INSTRUCTIONS TO CANDIDATES**

Answer Question One and Any other TWO (2) Questions

TIME: 2 Hours

This Paper Consists of 3 Printed Pages. Please Turn Over. ►

**QUESTION ONE (Compulsory)**

- a) State **four** reasons why poverty and underdevelopment have been termed as the worst enemies of the environment (4 Marks)
- b) What do you understand by the following terms
- i. Greenhouse effect (1mark)
  - ii. Food chain (2marks)
  - iii. Air pollution (1mark)
- c) Outline **three** approaches of teaching environmental education in secondary school curriculum (3 Marks)
- d) Differentiate between environmental management and environmental conservation (4 Marks)
- e) The earth's system is represented by interlinking and interacting "spheres" of processes and phenomena. Name **four** such "spheres" (4marks)
- f) List **four** areas where knowledge gained from ecology is applied (4marks)
- g) Briefly describe **four** ways by which man's activities greatly interferes with food webs (4marks)
- h) State **three** main threats to natural resources (3marks)

**QUESTION TWO**

- a) State and explain **five** human activities that impact on nutrient cycling (10 Marks)
- b) Briefly describe how sustainable Development can be achieved in Kenya. (7 Marks)
- c) Outline **three** reasons why the use of chemicals is necessary within the environment

(3 Marks)

**QUESTION THREE**

- a) Describe **six** qualities environmental education aims to inculcate to individuals and societies (12 Marks)
- b) State and explain the **four** outcomes of the Stockholm conference (1972) (8 Marks)

**QUESTION FOUR**

- a) Briefly describe **five** consequences of using advanced technology on the environment (10 Marks)
- b) State and explain **five** global environmental problems that require urgent attention (10 Marks)

**QUESTION FIVE**

- a) Discuss **four** measures that can be taken to motivate and reinforce attitude change for sustainable living among citizens. (8 Marks)
- b) Giving relevant examples, explain the **four** strategies that a teacher can adopt in teaching environmental education. (12 Marks)